

FACILITY SITE IDENTIFICATION DATA STANDARD

Standard No.: EX000020.2

January 6, 2006

Approved on January 6, 2006 by the
Exchange Network Leadership Council
for use on the Environmental
Information Exchange Network

Approved on January 6, 2006 by the
Chief Information Officer of the
U. S. Environmental Protection Agency
for use within U.S. EPA

This consensus standard was developed in collaboration by State, Tribal, and U. S. EPA representatives under the guidance of the Exchange Network Leadership Council and its predecessor organization, the Environmental Data Standards Council.

Foreword

The Environmental Data Standards Council (EDSC) identifies, prioritizes, and pursues the creation of data standards for those areas where information exchange standards will provide the most value in achieving environmental results. The Council involves state and federal agencies, tribes and tribal nations in the development of the standards and then provides the draft materials for general review. Business groups, non-governmental organizations, and other interested parties may then provide input and comment for Council consideration and standard finalization. Standards are available at <http://www.epa.gov/datastandards>.

1.0 INTRODUCTION

The purpose of this standard is to identify a facility of environmental interest. Adoption of the standard will help US EPA, Tribes, and States integrate and share facility information across multiple information systems, programs, and governments.

This standard provides for the unique identification of facilities regulated or monitored by US EPA, Tribes, and States. Each facility is assigned a unique facility identification number, which identifies information for the facility specified.

1.1 Scope

This standard provides and describes data groupings that are used to exchange facility site identification data and information.

1.2 Revision History

Date	Version	Description
May 31, 2000	1-19936:1	Initial adoption by the Environmental Data Standards Council.
February 1, 2005	1-189236:2	Added federal facility information, renamed standard, revised format and revised some data element names and definitions.
January 6, 2006	EX000023:2	Assignment of a new data standard number.

1.3 References to Other Data Standards

This data standard relies on other data standards to make it complete and to provide the necessary support. As such, users should reference the normative standards, listed below, and consider them integral to the Facility Site Identification Data Standard.

- Contact Information [EX000019.2] Data Standard
- Latitude/Longitude [EX000017.2] Data Standard
- Standard Industrial Classification (SIC)/North American Industry Classification System (NAICS) [EX000022.2] Data Standard
- Representation of Date and Time [EX000013.1] Data Standard.

1.4 Terms and Definitions

For the purposes of this document, the following terms and definitions apply.

Term	Definition
Facility	<p>A distinct real property entity (i.e., a man-made object and its surrounding real estate).</p> <p>Note 1. Facilities incorporate the characteristics of being: (1) objects, established at (2) specific places, for (3) specific purposes.</p> <p>Note 2. For the purposes of this standard, a facility can include monitoring stations, waste sites, and other entities of environmental interest that cannot be classified as single facilities.</p>
Federal Facility	<p>A facility (or the land it occupies that is owned or operated by the Federal Government.</p>
Facility Registry System	<p>A centrally managed database of authoritative information that identifies facilities that are regulated or of environmental interest to US EPA programs or delegated states.</p>

1.5 Implementation

Users are encouraged to use the XML registry housed on the Exchange Network Web site to download schema components for the construction of XML schema flows (<http://www.exchangenetwork.net>).

1.6 Document Structure

The structure of this document is briefly described below:

- a. Section 2.0 Facility Site Identification Diagram, illustrates the principal data groupings contained within this standard.
- b. Section 3.0 Facility Site Data Standards Table, provides detailed information on the high level, intermediate and elemental Facility Site data groupings. Where applicable, for each level of this data standard a definition, XML tag, note(s), example list of values and format are provided. The format column may include the number of characters for the associated data element, where "A" specifies alphanumeric, "N" designates numeric, and "Graphic" designates a diagram or other graphic related binary object.
- c. Data Element Numbering. For purposes of clarity and to enhance understanding of data standard hierarchy and relationships, each data group is numerically classified from the primary to the elemental level.
- d. Code and Identifier Metadata: Metadata, defined here as data about data or data elements, that includes their descriptions and/or any needed context setting information required to identify the origin, conditions of use, interpretation, or understanding the information being exchanged or transferred. (Adapted from ISO/IEC 2382-17:1999 Information Technology Vocabulary—Part 17: Databases 17.06.05 metadata). Based on the business need, additional metadata may be required to sufficiently describe an identifier or a code. A note regarding this additional metadata is included in the notes column for identifier and code elements. Additional metadata for identifiers may include:
 - Identifier Context, which identifies the source or data system that created or defined the identifier

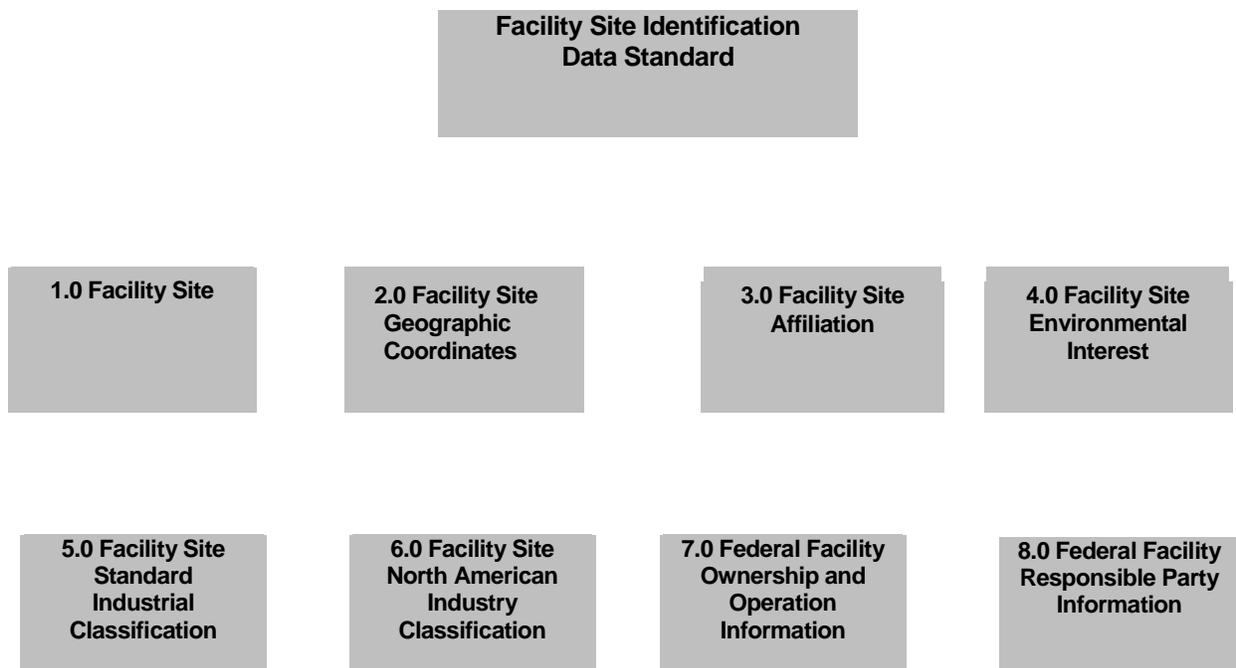
Additional metadata for codes may include:

- Code List Identifier, which is a standardized reference to the context or source of the set of codes
- Code List Version Identifier, which identifies the particular version of the set of codes.

- Code List Version Agency Identifier, which identifies the agency responsible for maintaining the set of codes
 - Code List Name, which describes the corresponding name for which the code represents
- e. Appendix A Facility Site Identification Data Structure Diagram, illustrates the hierarchical classification of the facility site data standard. This diagram enables business and technical users of this standard to quickly understand its general content and complexity.
- f. Appendix B, lists the references for Facility Site Identification Data Standard. **2.0**

FACILITY SITE IDENTIFICATION DIAGRAM

This diagram specifies the major data groups that may be used to identify the characteristics and/or to catalog a facility site.



3.0 FACILITY SITE DATA STANDARD TABLE

1.0 Facility Site

Definition: Basic identification information for a facility site, including the facility registry identifier, geographic address, and geopolitical descriptors.

Relationships:

- Each Facility Site may be involved with one or more Affiliation(s).
- Each Facility Site may be classified by one or more Standard Industrial Classification (SIC) codes.
- Each Facility Site may be classified by one or more North American Industry Classification System (NAICS) codes.
- Each Facility Site may be geographically located by one or more Geographic Coordinates.
- Each Facility Site must be monitored by one or more Environmental Interest(s).

Notes: None

XML Tag: FacilitySite

Name	Definition	Notes	Format	XML Tag
1.1 Facility Site Identity	None	None	G	FacilitySiteIdentity
1.1.1 Facility Site Identifier	The unique identification number used by US EPA, Tribes or states to identify a facility site.	Based on the business need, additional metadata may be required to sufficiently describe an identifier. This additional metadata is described in <i>Section 1.6— Document Structure</i> .	A	FacilitySiteIdentifier

1.1.2 Facility Site Name	The public or commercial name of a facility site (i.e., the full name that commonly appears on invoices, signs, or other business documents, or as assigned by the state when the name is ambiguous).		A	FacilitySiteName
1.1.3 Facility Site Type Code	The designator that represents the type of site a facility occupies.	Based on the business need, additional metadata may be required to sufficiently describe a code. This additional metadata is listed in 1.6— <i>Document Structure</i> .	A	FacilitySiteTypeCode
1.1.4 Federal Facility Indicator	An indicator identifying facilities owned or operated by a federal governmental unit.	Permissible values: Y (Yes) N (No)	A	FederalFacilityIndicator
1.2 Facility Site Location Address	The address that describes the physical (geographic) location of the front door or main entrance of a facility site, including urban-style street address or rural address.	Refer to Location Address grouping in the Contact Information [EX000019.2] Data Standard. The following items are expected to define the facility location address information needed for Section 1.2: Location Address Text Supplemental Location Text Locality Name Location Address State Code Address Postal Code Location Address Country Code Location Address County Code Location Tribe Location Description Text	G	FacilitySiteLocationAddress

2.0 Facility Site Geographic Coordinates

Definition: A geographic point, or set of points, defined by latitude and longitude coordinates used to locate a facility site, usually the front door or centroid, including the associated method, accuracy, and description data.

Relationships: Each Geographic Coordinates occurrence must geographically locate one and only one Facility Site occurrence.

Note 1: There can be multiple Geographic Coordinates associated with a Facility Site, however each instance of a Geographic Coordinate can only be associated with one Facility Site occurrence.

Note 2: Refer to Geographic Address Data Block in the Latitude/Longitude [EX000017.2] Data Standard
The following items are expected to define the facility geographic coordinates information needed for Section 2.0:

- Latitude Measure
- Longitude Measure Horizontal
- Accuracy Measure Geometric
- Type
 - Geometric Type Code
 - Geometric Type Name
- Horizontal Collection Method
 - Horizontal Collection Method Code
 - Horizontal Collection Method Text
- Horizontal Reference Datum
 - Horizontal Reference Datum Code
 - Horizontal Reference Datum Name
- Reference Point
 - Reference Point Code
 - Reference Point Text

XML Tag: FacilitySiteGeographicCoordinates

Name	Definition	Notes	Format	XML Tag
------	------------	-------	--------	---------

3.0 Facility Site Affiliation

Definition: The relationship between a facility site and an organization and/or an individual person.

Relationships:

- Each Affiliation occurrence must be established with one and only one Facility Site occurrence.
- Each Affiliation occurrence may involve one and only one Organization occurrence.
- Each Affiliation occurrence may involve one and only one Individual occurrence.
- Each Affiliation occurrence may receive mail at one and only one Mailing Address occurrence.

Note 1: There is no requirement that the affiliation must exist; however, if an affiliation exists, it must be associated with one and only one Facility Site.

Note 2: An Organization may participate with multiple Facility Sites.

Note 3: Each type of affiliation can exist more than once for a facility site; thus, there can be two occurrences of the Legally Responsible Entity affiliation type with a Facility Site.

XML Tag: FacilitySiteAffiliation

<p>3.1 Facility Site Affiliation Point of Contact</p>	<p>Identifies the organization or person with knowledge of the project and who can assist the public in finding additional information about a given facility.</p>	<p>Note 1: Refer to Point of Contact Data grouping in the Contact Information [EX000019.2] Data Standard. The following items are expected to define the facility affiliation point of contact information needed for Section 3.1.</p> <ul style="list-style-type: none"> Organization <ul style="list-style-type: none"> Organization Identifier Organization Formal Name Individual <ul style="list-style-type: none"> Individual Identifier Individual Title Text Individual Prefix Text Individual Full Name Name Suffix Text Affiliation <ul style="list-style-type: none"> Affiliation Type Affiliation Start Date Affiliation End Date Affiliation Status Affiliation Status Determination Date <p>Note 2: Example List of Values for Affiliation</p> <p>For organizations:</p> <ul style="list-style-type: none"> Legally Responsible Entity Legal Operator Waste Treater Waste Handler Land Owner Parent Corporation <p>For individuals:</p> <ul style="list-style-type: none"> Report Certifier, Regulatory Contact, Public Contact 	<p>G</p>	<p>FacilitySiteAffiliationPointOfContact</p>
---	--	--	----------	--

<p>3.2 Facility Site Affiliation Mailing Address</p>	<p>The standard address used to send mail to an individual or organization affiliated with the facility site.</p>	<p>Refer to Mailing Address data group in the Contact Information [EX000019.2] Data Standard. The following items are expected to define the facility site affiliation mailing address information needed for Section 3.2.</p> <ul style="list-style-type: none"> Mailing Address Text Supplemental Address Text Mailing Address City Name Mailing Address State Code Address Postal Code Mailing Address Country Code 	<p>G</p>	<p>FacilitySiteAffiliationMailingAddress</p>
--	---	---	----------	--

4.0 Facility Site Environmental Interest

Definition: The environmental permits and regulatory programs that apply to the facility site.

Relationships: Each Environmental Interest occurrence must apply to one and only one Facility Site occurrence.

Notes: None

XML Tag: FacilitySiteEnvironmentalInterest

Name	Definition	Notes	Format	XML Tag
------	------------	-------	--------	---------

<p>4.1 Environmental Interest Type Text</p>	<p>The environmental permit or regulatory program that applies to the facility site.</p>	<p>Example List of Values:</p> <table border="0"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>TRI Report</td> <td>Toxic Release Inventory Report</td> </tr> <tr> <td>NPDES Major</td> <td>Clean Water Act NPDES Major</td> </tr> <tr> <td>NPDES Minor</td> <td>Clean Water Act NPDES Minor</td> </tr> <tr> <td>NPDES General Permit</td> <td>Clean Water Act NPDES General Permit</td> </tr> <tr> <td>NPDES Stormwater Permit</td> <td>Clean Water Act NPDES Stormwater Permit</td> </tr> <tr> <td>NPDES Other Permit</td> <td>Clean Water Act NPDES Other Permit</td> </tr> <tr> <td>Pretreatment SIU</td> <td>Clean Water Act Pretreatment</td> </tr> <tr> <td>Significant Industrial User</td> <td></td> </tr> <tr> <td>SS Major</td> <td>Clean Air Act Stationary Source</td> </tr> <tr> <td>SS Major</td> <td></td> </tr> <tr> <td>SS Synthetic Minor</td> <td>Clean Air Act Stationary Source</td> </tr> <tr> <td>SS Synthetic Minor</td> <td></td> </tr> <tr> <td>SS NESHAP Minor</td> <td>Clean Air Act Stationary Source</td> </tr> <tr> <td>SS NESHAP Minor</td> <td></td> </tr> <tr> <td>SS Other Minor</td> <td>Clean Air Act Stationary Source</td> </tr> <tr> <td>SS Other Minor</td> <td></td> </tr> <tr> <td>RMP Facility</td> <td>Clean Air Act RMP Facility</td> </tr> <tr> <td>TSD</td> <td>Hazardous Waste Handler - Treatment, Storage, Disposal (TSD)</td> </tr> <tr> <td>LQG (US EPA Defined)</td> <td>Hazardous Waste Handler – Large Quantity Generator (LQG), as defined by US EPA</td> </tr> <tr> <td>LQG (State Defined)</td> <td>Hazardous Waste Handler – Large Quantity Generator (LQG), as defined by State</td> </tr> <tr> <td>SQG</td> <td>Hazardous Waste Handler – Small Quantity Generator (SQG) Spill Control</td> </tr> <tr> <td>Plan</td> <td>Oil Pollution Act Spill Control Plan</td> </tr> <tr> <td>UIC (UIC)</td> <td>Underground Injection Control Well</td> </tr> <tr> <td>UST</td> <td>Underground Storage Tank (UST)</td> </tr> </tbody> </table> <p><i>Remarks:</i> This list will be expanded as necessary to include values for additional interests.</p>	Value	Meaning	TRI Report	Toxic Release Inventory Report	NPDES Major	Clean Water Act NPDES Major	NPDES Minor	Clean Water Act NPDES Minor	NPDES General Permit	Clean Water Act NPDES General Permit	NPDES Stormwater Permit	Clean Water Act NPDES Stormwater Permit	NPDES Other Permit	Clean Water Act NPDES Other Permit	Pretreatment SIU	Clean Water Act Pretreatment	Significant Industrial User		SS Major	Clean Air Act Stationary Source	SS Major		SS Synthetic Minor	Clean Air Act Stationary Source	SS Synthetic Minor		SS NESHAP Minor	Clean Air Act Stationary Source	SS NESHAP Minor		SS Other Minor	Clean Air Act Stationary Source	SS Other Minor		RMP Facility	Clean Air Act RMP Facility	TSD	Hazardous Waste Handler - Treatment, Storage, Disposal (TSD)	LQG (US EPA Defined)	Hazardous Waste Handler – Large Quantity Generator (LQG), as defined by US EPA	LQG (State Defined)	Hazardous Waste Handler – Large Quantity Generator (LQG), as defined by State	SQG	Hazardous Waste Handler – Small Quantity Generator (SQG) Spill Control	Plan	Oil Pollution Act Spill Control Plan	UIC (UIC)	Underground Injection Control Well	UST	Underground Storage Tank (UST)	<p>A</p>	<p>Environmental InterestTypeText</p>
Value	Meaning																																																					
TRI Report	Toxic Release Inventory Report																																																					
NPDES Major	Clean Water Act NPDES Major																																																					
NPDES Minor	Clean Water Act NPDES Minor																																																					
NPDES General Permit	Clean Water Act NPDES General Permit																																																					
NPDES Stormwater Permit	Clean Water Act NPDES Stormwater Permit																																																					
NPDES Other Permit	Clean Water Act NPDES Other Permit																																																					
Pretreatment SIU	Clean Water Act Pretreatment																																																					
Significant Industrial User																																																						
SS Major	Clean Air Act Stationary Source																																																					
SS Major																																																						
SS Synthetic Minor	Clean Air Act Stationary Source																																																					
SS Synthetic Minor																																																						
SS NESHAP Minor	Clean Air Act Stationary Source																																																					
SS NESHAP Minor																																																						
SS Other Minor	Clean Air Act Stationary Source																																																					
SS Other Minor																																																						
RMP Facility	Clean Air Act RMP Facility																																																					
TSD	Hazardous Waste Handler - Treatment, Storage, Disposal (TSD)																																																					
LQG (US EPA Defined)	Hazardous Waste Handler – Large Quantity Generator (LQG), as defined by US EPA																																																					
LQG (State Defined)	Hazardous Waste Handler – Large Quantity Generator (LQG), as defined by State																																																					
SQG	Hazardous Waste Handler – Small Quantity Generator (SQG) Spill Control																																																					
Plan	Oil Pollution Act Spill Control Plan																																																					
UIC (UIC)	Underground Injection Control Well																																																					
UST	Underground Storage Tank (UST)																																																					

4.2 Environmental Interest Start Date	Date that US EPA, Tribe or State became interested in the facility site for a particular environmental interest type.	Refer to the Representation of Date and Time [EX000013.1] Data Standard.	D	EnvironmentalInterestStartDate
4.3 Environmental Interest End Date	Date that US EPA, Tribe or State ceased to be interested in the facility site for a particular environmental interest type.	Refer to the Representation of Date and Time [EX000013.1] Data Standard.	D	EnvironmentalInterestEndDate
4.4 Environmental Interest Start Date Qualifier Text	The qualifier that specifies the meaning of the date being used as an approximation for the environmental interest start date.	Example List of Values: Date of first report Date operations commenced Date of permit application Date permit issued Date monitoring started	A	InterestStartDateQualifierText
4.5 Environmental Interest End Date Qualifier Text	The qualifier that specifies the meaning of the date being used as an approximation for the environmental interest end date.	Example List of Values: Date of last report Date permit ended Date operations ended	A	InterestEndDateQualifierText

4.6 Environmental Information System Abbreviated Name	The abbreviated name that represents the name of an environmental information management system for an environmental program.		A	InformationSystemAbbreviatedName
4.7 Environmental Information System Identification Number	The identification number, such as the permit number, assigned by an information management system that represents a facility site, waste site, operable unit, or other feature tracked by that environmental information management system.		A(30)	InformationSystemIdentifier

7.0 Federal Facility Ownership and Operation Information

Definition: Provides information about the legal right of possession or proprietorship.

Relationships:

- Facility Operation Type Name has an associated Facility Operation Type Code
- Facility Ownership Type Name has an associated Facility Ownership Type Code
- Facility Land Ownership Name has an associated Facility Land Ownership Code

Notes: All data elements in this group were added from the Federal Facility Data Standard. The Federal Facility Data Standard is completely incorporated in the Facility Site Data Standard.

XML Tag: FederalFacilityOwnershipOperationInformation

Name	Definition	Notes	Format	XML Tag
7.1 Facility Ownership Type Code	The code of the type of ownership of a facility.	Example List of Values: F (Federal) S (State) C (County) P (Private) T (Tribal) M (Municipal) D (District) O (Other) U (Unknown) X (Not identified) Based on the business need, additional metadata may be required to sufficiently describe a code. This additional	A	FacilityOwnershipTypeCode
7.2 Facility Operation Type Code	The code that represents the type of party that operates a facility.	Example List of Values: F (Federal) S (State) C (County) P (Private) T (Tribal) M (Municipal) D (District) O (Other) U (Unknown) X (Not identified) Based on the business need, additional metadata may be required to sufficiently describe a code. This additional metadata is listed in <i>Section 1.6—Document Structure</i> .	A	FacilityOperationTypeCode

7.3 Facility Land Ownership Code	The code that represents the name indicating the ownership of the land on which the facility is located.	<p>Example List of Values:</p> <ul style="list-style-type: none"> F (Federal) S (State) C (County) P (Private) T (Tribal) M (Municipal) D (District) O (Other) U (Unknown) X (Not identified) <p>Based on the business need, additional metadata may be required to sufficiently describe a code. This additional metadata is listed in <i>Section 1.6—Document Structure</i>.</p>	A	FacilityLandOwnershipCode
----------------------------------	--	--	---	---------------------------

8.0 Federal Facility Responsible Party Information

Definition: Provides information about the federal agency primarily responsible (i.e., ownership or operation) for a facility.

Relationships:

- Facility Responsible Agency Name or Code must be associated with Facility Responsible Agency Type Name or Code.

Notes: All data elements in this group were added from the Federal Facility Data Standard. The Federal Facility Data Standard is completely incorporated in the Facility Site Data Standard. FederalFacilityResponsiblePartyInformation

XML Tag:

Name	Definition	Notes	Format	XML Tag
------	------------	-------	--------	---------

8.1 Responsible Agency Code	The code that represents the name of the federal agency primarily responsible (i.e., ownership or operation) for a facility.	<p>Example List of Values:</p> <ul style="list-style-type: none"> USDHS (United States Department of Homeland Security) USDHS-USCG (United States Coast Guard) USDA (United States Department of Agriculture) USDA-USFS (United States Forest Service) USDA-FDA (Food and Drug Administration) USDOC (United States Department of Commerce) USDOC-NOAA (National Oceanic and Atmospheric Administration) USDOC-NIST (National Institute for Science and Technology) USDOD (United States Department of Defense) USDOD-USAF (United States Air Force) USDOD-USA (United States Army) USDOD-USMC (United States Marines Corps) USDOD-USN (United States Navy) USDOD-DLA (Defense Logistics Agency) USDOD-USACE (United States Army Corps of Engineers) USDOD-NIMA (National Imagery and Mapping Agency) USEDU (United States Department of Education) USDOE (United States Department of Energy) USDOE-NNSA (National Nuclear Security Administration) USDOE-ESE (Energy, Science, Environment) USDOE-PA (Power Administration) USHHS (United States Department of Health and Human Services) USHUD (United States Department of Housing and Urban Development) USDOI (United States Department of the Interior) USDOI-BIA (Bureau of Indian Affairs) USDOI-NPS (National Park Service) USDOI-BLM (Bureau of Land Management) USDOI-BOR (Bureau of Reclamation) USDOI-BOM (Bureau of Mining) USDOI-FW (Fish and Wildlife Service) USDOI-USGS (United States Geological Survey) USDOJ (United States Department of Justice) USLABOR (United States Department of Labor) USSTATE (United States Department of State) USDOT (United States Department of Transportation) USDOT-FAA (Federal Aviation Administration) USTREASURY (United States Department of the Treasury) USVA (United States Department of Veteran Affairs) USEPA (United States Environmental Protection Agency) USGSA (United States General Services Administration) USNASA (United States National Aeronautics and Space Administration) 	A	ResponsibleAgencyCode
-----------------------------	--	--	---	-----------------------

8.2 Responsible Agency Type Code	The code that represents the name of the type of federal agency primarily responsible for a facility.	Permissible values: C (Civilian) M (Military)	A	ResponsibleAgencyTypeCode
8.3 Facility Management Type Code	The code representing the name of the type of operation management currently at a facility.	<p>Example List of Values:</p> <ul style="list-style-type: none"> GOGO (Government-owned government-operated) GOCO (Government-owned contractor-operated) GOPO (Government-owned privately-operated) COCO (Contractor-owned contractor-operated) COCO(E) (Contractor-owned contractor-operated with government owned equipment) POGO (Privately-owned government-operated) PRMT (Permittee) LESE (Leasee) GRTE (Grantee) CLAM (Claimant) PH (Patent Holder) WPUB (Withdrawn from Public Use) FUDS (Formerly used defense site) FUSRAP (Formerly used sites remedial action program) FT (Federal Trustee) BRAC (Base Realignment and Closure) CTT (Closed, Transferred or Transferring) OC (Otherwise Classified) <p>Based on the business need, additional metadata may be required to sufficiently describe a code. This additional metadata is listed in <i>Section 1.6—Document Structure</i>.</p>	A	FacilityManagementTypeCode

APPENDIX B References

1. *Clinger-Cohen Act of 1996* (formerly the Information Technology Management Reform Act of 1996). 2. *OMB Circular No. A-130, Management of Federal Information Resources*, February 8, 1996.
3. *Office of Management and Budget Circular A-119, Federal Participation in the Development and Use of Voluntary Consensus Standards*, February 10, 1998.
4. *Facility Identification Template for States (FITS): Working Guidelines for Integrating Facility Identification Information*. Report sponsored by the Environmental Council of States, United States EPA One Stop Program and the Washington Department of Ecology. December 15, 1997.
5. *Facility Identification Template for States (FITS) Version 2: Working Guidelines for Integrating Facility Identification Information*. Prepared for State Environmental Agencies, sponsored by Knowledge Transfer Action Team of the State/EPA Information Management Workgroup, Washington Department of Ecology, Environmental Council of States, and United States EPA One Stop Reporting Program. February, 2000.
6. *Data Content Standard for Location and Identification of Facilities, Federal Geographic Data Committee (FGDC)*, Public Review Draft, November 1997.
7. *ISO/IEC 2382-17:1999 Information Technology Vocabulary—Part 17: Databases 17.06.05*.